

**COMBINED DECLARATION AND POWER OF ATTORNEY**

As a below named inventor, I hereby declare that:

This declaration is of the following type:

- original
- divisional
- continuation
- continuation-in-part

**INVENTORSHIP IDENTIFICATION**

My residence, post office address and citizenship are as stated below next to my name. I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**RELIABILITY BARRIER INTEGRATION FOR CU APPLICATION**

**SPECIFICATION IDENTIFICATION**

The specification of which:

- is attached hereto
- was filed on \_\_\_\_\_, under Serial No. \_\_\_\_\_, executed on even date herewith; or
- Express Mail No. (as Serial No. not yet known)  
and was amended on \_\_\_\_\_ (if applicable)
- was described and claimed in PCT International Application No. \_\_\_\_\_  
filed on \_\_\_\_\_ and as amended under PCT Article 19 on \_\_\_\_\_.

**ACKNOWLEDGMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR**

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose all information I know to be material to patentability in accordance with

Title 37, Code of Federal Regulations, 1.56, and which is material to the examination of this application; namely, information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent, and

- In compliance with this duty there is attached an Information Disclosure Statement in accordance with 37 CFR 1.98.

PRIORITY CLAIM (35 U.S.C. 119)

I hereby claim foreign priority benefits under Title 35, United States Code, 119, of any provisional or foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below, and have also identified below any provisional or foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

No such applications have been filed.

Such applications have been filed as follows:

- A. Prior foreign/PCT application(s) filed within 12 mos. (6 mos. for design) prior to this application, and any priority claims under 35 U.S.C. 119

<u>Country/PCT</u>	<u>Application No</u>	<u>Date Filed</u>	<u>Priority Claimed</u>
			[ ] Yes [ ] No
			[ ] Yes [ ] No
			[ ] Yes [ ] No

- B. All foreign application(s), if any, filed more than 12 mos. (6 mos for design) prior to this U.S. application

Country:

Application No:

Filing date:

- C. U.S. Provisional Application filed within 12 months prior to this application

<u>Serial No.</u>	<u>Filing Date</u>
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PRIORITY CLAIM (35 U.S.C. 120)

I hereby claim the benefit under Title 35, United States Code, 120, of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, 112, I acknowledge the duty to disclose information that is material to the examination of this application (namely, information where there is substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application.

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08/856,116	May 14, 1997		Pending	Abandoned

**POWER OF ATTORNEY**

I hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

Donald Verplancken	Registration No. 33,217
Michael B. Einschlag	Registration No. 29,301
Peter J. Sgarbossa	Registration No. 25,610
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Raymond R. Moser, Jr.	Registration No. 34,682
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**Send correspondence to:**      **Direct telephone calls to:**

Patent Counsel Applied Materials, Inc. P.O. Box 450-A Santa Clara, CA 95052	B. Todd Patterson MOSER, PATTERSON & SHERIDAN, L.L.P. 713-623-4844
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**DECLARATION**

*I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and, further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Sec. 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.*

Full name of first inventor:      MING XI

Inventor's signature: ming      Date: 11/10/02

Residence:      138 Beaumere Way  
Milpitas, CA 95035

Post Office Address:      SAME AS ABOVE  
U.S.A.

Country of Citizenship: P.R. CHINA

Full name of second inventor: PAUL FREDERICK SMITH

Inventor's signature:      Date: \_\_\_\_\_

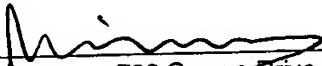
Residence:      225 E. Taylor Street #4  
San Jose, CA 95112

Post Office Address:      SAME AS ABOVE  
U.S.A.

Country of Citizenship: USA

INVENTOR DECLARATION

Full name of third inventor: LING CHEN  
Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 784 Dartshire Way  
Sunnyvale, CA 94087  
Post Office Address: SAME AS ABOVE  
U.S.A. Country of Citizenship: P.R. CHINA

Full name of fourth inventor: MICHAEL X. YANG  
Inventor's signature:  Date: 1/10/2002  
Residence: 793 Cereza Drive  
Palo Alto, CA 94306  
Post Office Address: SAME AS ABOVE  
U.S.A. Country of Citizenship: P.R. CHINA

Full name of fifth inventor: MEI CHANG  
Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 12881 Corte de Arguello  
Saratoga, CA 95070  
Post Office Address: SAME AS ABOVE  
U.S.A. Country of Citizenship: USA

Full name of sixth inventor: FUSEN CHEN  
Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 10390 Stern Avenue  
Cupertino, CA 95014  
Post Office Address: SAME AS ABOVE  
U.S.A. Country of Citizenship: TAIWAN

Full name of seventh inventor: CHRISTOPHE MARCADAL  
Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 3655 Proneridge Avenue #124  
Santa Clara, CA 95051  
Post Office Address: SAME AS ABOVE  
U.S.A. Country of Citizenship: FRANCE

Full name of eighth inventor: JENNY C. LIN  
Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: 12725 Miller Avenue  
Saratoga, CA 95070  
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Patent Counsel  
Applied Materials, Inc.  
P.O. Box 450-A  
Santa Clara, CA 95052

B. Todd Patterson  
MOSER, PATTERSON & SHERIDAN, L.L.P.  
713-623-4844

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Post Office Address: SAME AS ABOVE  
U.S.A.

Country of Citizenship: P.R. CHINA

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Inventor's signature: *Paul Frederick Smith* Date: 01/10/02

Residence: 225 E. Taylor Street #4  
San Jose, CA 95112

Post Office Address: SAME AS ABOVE  
U.S.A. (B)

Country of Citizenship: USA

*955 Stonehurst Way  
Campbell, CA, 95008*

100-20254-041205

Full name of third inventor: LING CHEN

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Residence: 784 Dartshire Way  
Sunnyvale, CA 94087

Post Office Address: SAME AS ABOVE  
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Saratoga, CA 95070

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Full name of sixth inventor: FUSEN CHEN

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Patent Counsel Applied Materials, Inc. P.O. Box 450-A Santa Clara, CA 95052	B. Todd Patterson MOSER, PATTERSON & SHERIDAN, L.L.P. 713-623-4844
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Post Office Address:      SAME AS ABOVE  
U.S.A.

Country of Citizenship: P.R. CHINA

Full name of second inventor: PAUL FREDERICK SMITH

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence:      225 E. Taylor Street #4  
San Jose, CA 95112

Post Office Address:      SAME AS ABOVE  
U.S.A.

Country of Citizenship: USA

2025 RELEASE UNDER E.O. 14176

Full name of third inventor:

LING CHEN

Inventor's signature:

Date: 1-10-01

Residence:

784 Dartshire Way  
Sunnyvale, CA 94087

Post Office Address:

SAME AS ABOVE  
U.S.A.

Country of Citizenship: P.R. CHINA

Full name of fourth inventor:

MICHAEL X. YANG

Inventor's signature:

Date:

Residence:

793 Cereza Drive  
Palo Alto, CA 94306

Post Office Address:

SAME AS ABOVE  
U.S.A.

Country of Citizenship: P.R. CHINA

Full name of fifth inventor:

MEI CHANG

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Date:

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Country of Citizenship: TAIWAN

Full name of seventh inventor:

CHRISTOPHE MARCADAL

Inventor's signature:

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Residence:

3655 Proneridge Avenue #124  
Santa Clara, CA 95051

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JENNY C. LIN

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DECLARATION

*I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and, further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Sec. 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.*

Full name of first inventor:      MING XI

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence:      138 Beaumere Way  
Milpitas, CA 95035

Post Office Address:      SAME AS ABOVE  
U.S.A.

Country of Citizenship: P.R. CHINA

Full name of second inventor: PAUL FREDERICK SMITH

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence:      225 E. Taylor Street #4  
San Jose, CA 95112

Post Office Address:      SAME AS ABOVE  
U.S.A.

Country of Citizenship: USA

Full name of third inventor: LING CHEN

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: 784 Dartshire Way  
Sunnyvale, CA 94087

Post Office Address: SAME AS ABOVE  
U.S.A. Country of Citizenship: P.R. CHINA

Full name of fourth inventor: MICHAEL X. YANG

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: 793 Cereza Drive  
Palo Alto, CA 94306

Post Office Address: SAME AS ABOVE  
U.S.A. Country of Citizenship: P.R. CHINA

Full name of fifth inventor: MEI CHANG

Inventor's signature:  Date: Jan 15 '02

Residence: 12881 Corte de Arguello  
Saratoga, CA 95070

Post Office Address: SAME AS ABOVE  
U.S.A. Country of Citizenship: USA

Full name of sixth inventor: FUSEN CHEN

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: 10390 Stern Avenue  
Cupertino, CA 95014

Post Office Address: SAME AS ABOVE  
U.S.A. Country of Citizenship: TAIWAN

Full name of seventh inventor: CHRISTOPHE MARCADAL

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: 3655 Proneridge Avenue #124  
Santa Clara, CA 95051

Post Office Address: SAME AS ABOVE  
U.S.A. Country of Citizenship: FRANCE

Full name of eighth inventor: JENNY C. LIN

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: 12725 Miller Avenue  
Saratoga, CA 95070

Post Office Address: SAME AS ABOVE  
U.S.A. Country of Citizenship: USA

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**COMBINED DECLARATION AND POWER OF ATTORNEY**

As a below named inventor, I hereby declare that:

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- divisional
- continuation
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<u>Country/PCT</u>	<u>Application No</u>	<u>Date Filed</u>	<u>Priority Claimed</u>
			[ ] Yes [ ] No
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Country:

Application No:

Filing date:

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08/856,116	May 14, 1997		Pending	Abandoned

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Raymond Kam-On Kwong	Registration No. 37,165
James C. Wilson	Registration No. 35,412
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San Jose, CA 95112

Post Office Address:      SAME AS ABOVE  
U.S.A.

Country of Citizenship: USA

10052100000000000000

Full name of **third** inventor: LING CHEN

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: 784 Dartshire Way  
Sunnyvale, CA 94087

Post Office Address: SAME AS ABOVE  
U.S.A. Country of Citizenship: P.R. CHINA

Full name of **fourth** inventor: MICHAEL X. YANG

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: 793 Cereza Drive  
Palo Alto, CA 94306

Post Office Address: SAME AS ABOVE  
U.S.A. Country of Citizenship: P.R. CHINA

Full name of **fifth** inventor: MEI CHANG

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: 12881 Corte de Arguello  
Saratoga, CA 95070

Post Office Address: SAME AS ABOVE  
U.S.A. Country of Citizenship: USA

Full name of **sixth** inventor: FUSEN CHEN

Inventor's signature: \_\_\_\_\_ Date: 1/14/02

Residence: 10390 Stern Avenue  
Cupertino, CA 95014

Post Office Address: SAME AS ABOVE  
U.S.A. Country of Citizenship: TAIWAN

Full name of **seventh** inventor: CHRISTOPHE MARCADAL

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: 3655 Proneridge Avenue #124  
Santa Clara, CA 95051

Post Office Address: SAME AS ABOVE  
U.S.A. Country of Citizenship: FRANCE

Full name of **eighth** inventor: JENNY C. LIN

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: 12725 Miller Avenue  
Saratoga, CA 95070

Post Office Address: SAME AS ABOVE  
U.S.A. Country of Citizenship: USA

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<u>Country/PCT</u>	<u>Application No</u>	<u>Date Filed</u>	<u>Priority Claimed</u>
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Country:

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San Jose, CA 95112

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Country of Citizenship: USA

PCT/US2007/041202

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Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

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Sunnyvale, CA 94087

Post Office Address: SAME AS ABOVE  
U.S.A. Country of Citizenship: P.R. CHINA

Full name of fourth inventor: MICHAEL X. YANG

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: 793 Cereza Drive  
Palo Alto, CA 94306

Post Office Address: SAME AS ABOVE  
U.S.A. Country of Citizenship: P.R. CHINA

Full name of fifth inventor: MEI CHANG

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: 12881 Corte de Arguello  
Saratoga, CA 95070

Post Office Address: SAME AS ABOVE  
U.S.A. Country of Citizenship: USA

Full name of sixth inventor: FUSEN CHEN

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: 10390 Stern Avenue  
Cupertino, CA 95014

Post Office Address: SAME AS ABOVE  
U.S.A. Country of Citizenship: TAIWAN

Full name of seventh inventor: CHRISTOPHE MARCADAL

Inventor's signature:  Date: 1-10-02

Residence: 3655 Pinetridge Avenue #124  
Santa Clara, CA 95051

Post Office Address: SAME AS ABOVE  
U.S.A. Country of Citizenship: FRANCE

Full name of eighth inventor: JENNY C. LIN

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: 12725 Miller Avenue  
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Post Office Address:      SAME AS ABOVE  
U.S.A.

Country of Citizenship: USA

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Full name of fourth inventor: MICHAEL X. YANG

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Palo Alto, CA 94306  
Post Office Address: SAME AS ABOVE  
U.S.A. Country of Citizenship: P.R. CHINA

Full name of fifth inventor: MEI CHANG

Full name of sixth inventor: FUSEN CHEN

Full name of seventh inventor: CHRISTOPHE MARCADAL

Full name of eighth inventor: JENNY C. LIN

Inventor's signature:  Date: 7/16/02  
Residence: 12725 Miller Avenue 20532-21 Porado Ct.  
Saratoga, CA 95070 T.L.  
Post Office Address: SAME AS ABOVE  
U.S.A. Country of Citizenship: USA

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